

## Exam Questions CT-TAE

Certified Tester Test Automation Engineer

<https://www.2passeasy.com/dumps/CT-TAE/>



#### NEW QUESTION 1

Your goal is to verify completeness, consistency and correct behavior of an automated test suite. The TAS has been proven to successfully install in the SUT environment. All the preliminary checks to verify the correct functioning of the automated test environment and test tool configuration, installation and setup have successfully completed.

Which of the following is NOT a relevant check for achieving your goal in this scenario?

- A. Checking whether all the test cases contain the expected results
- B. Checking whether the post condition have been fulfilled for all the test cases
- C. Checking whether the loading of the TAS is repeatable in the SUT environment
- D. Checking whether all the test cases produce repeatable outcomes

**Answer:** D

#### NEW QUESTION 2

A SUT has an existing automated test suite.

Which of the following statements relating to the introduction of new features in the SUT is TRUE?

- A. Automated tests are not affected by the introduction of a new feature and running them against the new SUT is a waste of effort
- B. The introduction of a new feature could require updates or additions to the testware components
- C. The test automation engineer should work with the business analysts to ensure the new feature is testable
- D. It is generally more difficult to automate test cases for a new feature as the development has not yet started

**Answer:** B

#### NEW QUESTION 3

You are reviewing the testability of your SUT.

Which of the following BEST refers to the characteristic of OBSERVABILITY?

- A. The ability of the SUT to perform its intended function for a specified period of time
- B. The ability to exercise the SUT by entering inputs, triggering events and invoking methods
- C. The ability of the SUT to prevent unauthorized access to its components or data.
- D. The ability to identify states, outputs, intermediate result and error messages in the SUT

**Answer:** D

#### NEW QUESTION 4

A defect in a SUT has been resolved and validated by an automated defect re-test in the current release of the software. This retest has now been added to the automated regression test suite.

Which statement BEST describes a reason why this defect could re-occur in future releases?

- A. Automated defect confirmation testing is not effective at confirming that the resolved defect will continue to work in future releases
- B. The configuration management process does not properly control the synchronization between software archives
- C. The automated regression test suite is not run consistently for future releases.
- D. The automated regression test suite has a narrower scope of functionality

**Answer:** B

#### NEW QUESTION 5

Which of the following is NOT a technical design consideration for a TAA?

- A. The number of users for the SUT
- B. Availability of interfaces for the SUT to be testable
- C. Standards and Legal requirements, e.g data privacy
- D. Data used by the SUT, e.g configuration, users

**Answer:** A

#### NEW QUESTION 6

You are working as a TAE for a company who are re-designing their website. The new website provides information for customers and there are two minor features being developed:

- 1) Request a newsletter
- 2) Ability to contact the organisation with a question or comment

The website must be "mobile friendly" and available on all major web browsers.

You have been tasked to provide an automated solution for web browsers only and to concentrate on the two minor features.

What would be a KEY challenge with automation in this context?

- A. A low level of intrusion is likely from use of existing UI elements, but depending on the solution this might be more complex than a higher level of intrusion.
- B. Because there is a high level of intrusion there may be many false alarms.
- C. Automation might not be possible on the mobile devices.
- D. The benefits of automation might not be achieved for many years due to the complexities of the SUT and automation solution.

**Answer:** D

#### Explanation:

Reference: <https://www.britannica.com/technology/automation/Advantages-and-disadvantages-of-automation>

#### NEW QUESTION 7

A major component of your organisation's Test Automaton Solution (TAS) is a popular open-source third-party capture-replay tool for automated functional testing. Which two of the following must the Test Automation Engineer (TAE) ensure happens for this TAS?

- a) The third party tool is placed under configuration management control.
- b) The annual support and maintenance costs are agreed with the tool's vendor.
- c) It is Important to obtain information about updates and new versions of the tool so that the third party tool is kept up to date.
- d) Ensure that the TAS test scripts are integrated into the tool's framework.
- e) Ensure that no changes are made to the tool, because modifications are not allowed for third party products.

- A. a and b
- B. c and d
- C. a and c
- D. d and e

**Answer:** A

#### NEW QUESTION 8

Consider a SUT that small run on multiple platform during the execution of automated test runs. In each test run an automated test suite needs to be executed, with the same version of the TAF, against the same version of the SUT of each platform. Each platform shall have its own dedicated test environment. Your goal is to implement a process as automated as possible ( i.e with minimal manual intervention) that allows implementing a consistent setup of the TAS across the multiple test environments.

Which two of the following aspects are MOST relevant for achieving your goal in this scenario?

- A) The configuration of the TAS uses automated installation scripts
- B) The TAF saves the logs needed to debug errors in XML format
- C) Features of the TAF not used by the automated tests have been tested
- D) All the automated test cases contain the expected results
- E) The TAS components are under configuration management

- A. A and e
- B. B and c
- C. B and d
- D. A and d

**Answer:** A

#### NEW QUESTION 9

You have investigated a new tool which enables the modelling of the SUT and can then generate test cases either manually or automatically. You have convinced your managers that the best way forward is to conduct a pilot project for this tool. You need to select a project to use for the pilot. You have the choice of the following projects:

Project A: A two-year project that is critical to the business and is currently in the requirement phase. This project is for a new e-commerce web site and is mostly being developed "in-house" although the payment system is being developed and delivered by a 3rd party provider.

Project B: A safety critical application for software to drive and park cars.

Project C: An upgrade to an important HR timesheet tracking application that will be available on a desktop and mobile application. This is a 1-month project developed in- house.

Project D The payment system from project A. Which project would be BEST for the pilot?

- A. Project A because it is a large project and has high visibility and is in the requirement phase.
- B. Project B because it is a safety critical system and has high visibility.
- C. Project C because it is a short, low priority project but is important.
- D. Project D because it is a small part of a larger project and will help show the tool's capabilities.

**Answer:** D

#### NEW QUESTION 10

Your company is new to test automation and as TAE. you have designed a TAS which successfully supports the SUT for the current project.

There are other systems currently in operation which have been tested manually and more systems are planned over the coming years. Based on this success, your company requires test automation be rolled out to other current and future SUTs with consistency being a key objective.

Which of the following is the BEST way to achieve that?

- A. Design a new TAS for each SUT, and manage each one through a dedicated automation support team.
- B. Install the current TAS into a central repository so that other tests on different SUTs use the same version of the TAS.
- C. Check for correct connectivity to internal and external systems to ensure that the TAS has been installed and configured correctly for each SUT.
- D. Develop a tool that keeps track of automation failures across the different SUTs and produces regular reports to stakeholders.

**Answer:** B

#### NEW QUESTION 10

Your organisation has successfully implemented a Test Automaton Solution (TAS) for a new project which has since been delivered into production via a number of sprints. A series of maintenance releases are now planned.

Some improvements were made to the Test Automation Architecture (TAA) as a result of feedback from the early sprints. The TAA improvements affected the TA, and the TAS was changed for the final sprint.

The new version of the TAS was generally well received but some performance and usability issues were encountered with the TAS which have yet to be addressed.

The test automation engineers supporting the maintenance releases must decide whether to use the enhanced TAS or the version that was used successfully for previous sprints.

What is the BEST action to take next?

- A. Perform an analysis of risks versus benefits for the enhanced TAS and then decide which version to use.
- B. Use the previous version because this was proven to wor

- C. It will be too risky to use the new version, with unresolved issues, for a live system.
- D. Use the new version because, despite some issues, it works, and the live system should not be tested using a different TAS.
- E. Use the new version of the TAS for the first maintenance release on a trial basis.
- F. If issues are encountered, switch to the previous version for later releases until the issues are resolved.

**Answer:** D

#### NEW QUESTION 15

You have been asked to automate a set of functional tests at system Test level via the CLI of the SUT for the first release of a software system. The automated tests will be delivered to the team in charge of maintenance testing, who will use them for part of the regression testing. They have the following requirements.

- \* 1. The automated tests must be as fast and cheap to maintain as possible
- \* 2. The cost of adding new automated tests must be as low as possible
- \* 3. The automated tests must have a high level of independence from the tool itself

Which of the following scripting techniques would be MOST suitable?

- A. Data-driven scripting
- B. Keyword-driven scripting
- C. Linear scripting
- D. Structure scripting

**Answer:** D

#### NEW QUESTION 18

You are executing the first test run of a test automation suite of 200 tests. All the relevant information related to the state of the SUT and to the automated test execution is stored in a small database. During the Automated test run you observe that the first 10 tests pass, while an abnormal termination occurs when executing the 11th test. This test does not complete its execution and the overall execution of the suite is aborted. An immediate analysis of the abnormal termination is expected to be time consuming and you have been asked to produce a detailed report of the execution results for the first test run, as soon as possible.

What is the MOST important FIRST step to be taken immediately after the abnormal occurred when executing the 11th test?

- A. Re-run the test automation suite starting from the 12th test
- B. Return the database to a consistent state that allows subsequent tests to run
- C. Take a backup of the database in its current state
- D. So it can be analyzed later
- E. Re-run the test automation suite starting from the 1st test.

**Answer:** C

#### NEW QUESTION 20

Assume that you are the TAE responsible for the correct functioning of a TAS, deployed in a test environment that consists of a few machines running the same version of the operating system. The TAS has been working and stable since its deployment, it has been used to run an automated test suite consisting of many similar automated tests. The infrastructure team is planning to update the operating system on these machines by installing a new service pack for security reasons. Since the vendor of the operating system assures full backward compatibility, the infrastructure team assures that there will be no impacts on the functioning of the TAS.

What is the BEST approach to confirm the correct functioning of the TAS in this scenario?

- A. Verify the behavior of the automated tests by running a small set of tests, then gradually run the remaining tests to confirm the correct functioning of the whole automated test suite.
- B. Make sure that the infrastructure team has completed installing the service pack on the machines where SUT is running, then run the whole automated test suite to verify its behavior
- C. Verify the behavior of the whole automated test suite by running all the automated tests
- D. Do not run any tests because you can immediately confirm the correct functioning of the automated test suite

**Answer:** A

#### NEW QUESTION 23

You are evaluating several test modelling tools and are wanting to automatically generate test cases within the tool where many different combinations of input data are created.

You are then wanting to export the test cases into a csv file which can then be read by a functional test execution tool using a data-driven or keyword-driven scripting method.

You have investigated several tools and there is only one tool that provides all the necessary features defined by your team with the exception of the export facility. It does not provide an export into either .xls or .csv formats.

What would be the BEST next step regarding the selection of this tool?

- A. Consider another tool that is more "fit for purpose" and has all the features required.
- B. Explore the possibility of creating your own export facility.
- C. Ask the vendor and use forums to see if a solution is available or going to be available in the future.
- D. Purchase this tool and generate the .csv file manually.

**Answer:** C

#### NEW QUESTION 24

In order to achieve re-use of a TAS, where SHOULD the design for reuse occur?

- A. At the code level
- B. At the framework level.
- C. At the TAS level



D. At the TAA level

**Answer:** C

#### NEW QUESTION 29

You are working on a web-based application called Book Vault that allows people to upload books and order books. This application must be available on all major browsers.

You have been testing the application manually and management have asked you to consider automating some of the tests.

You have investigated a number of commercial and free tools which can automate tests at a web browser level and one tool in particular meets your requirements and you have implemented a trial version.

You have basic programming skills and the main goal is to automate a few functional tests to see if the tool is compatible with the application and can recognise the objects and controls.

Which scripting technique would be MOST suitable in this scenario in order to meet the objectives?

- A. Structured scripting
- B. Capture-replay scripting
- C. Data-driven scripting
- D. Model-based scripting

**Answer:** B

#### Explanation:

Reference: <https://www.professionalqa.com/capture-tool>

#### NEW QUESTION 30

Your project is transitioning from manual to automated testing. You have decided to implement a pilot project so that lessons learned can inform future time estimates and schedules.

Which two of the following represent the types of test cases that are MOST suited to a test automation pilot project?

- a) High added value test cases that require little effort to automate.
- b) Test that are run infrequently as these will be simpler to automate
- c) Reliability test cases that can show added value soon
- d) Technically challenging test cases to provide the best validation of manual test conversion
- e) Tests that are least Important to the business as these are safer to trial

- A. a and b
- B. a and c
- C. b and d
- D. c and e

**Answer:** B

#### Explanation:

Reference: <https://www.perfecto.io/blog/types-of-test-cases-to-automate>

#### NEW QUESTION 35

A project consists of distributed teams working in a 24-hour environment, where activities happen at all hours of the day. This project adopts a CI (Continuous Integration) process when developer check-in code and consists of automated activities that include generating a build and deploying it to a test environment. Automated integration tests are run multiple times a day. The project have asked for a report containing the automation test results for every build, which must be available 24/7 to the project team.

Which of the following would be the BEST way to automatically provides this report?

- A. Store the execution results of the integration tests for the last build to a database (without overwriting the results from the previous builds), use this database to automaticallyupdate a dashboard containing the build history and test results accessible to the project team.
- B. Store the execution result of the integration tests for the last build to a database (overwriting the results from the previous build), automatically create a test execution report for this build send It via e-mail to the project team
- C. Store the execution results of the integration tests for the last build to a database (without overwriting the results from the previous builds). Automatically create a test execution report for this build and send it via e-mail to the project team
- D. Store the code coverage results of the integration tests for the last build to a database (without overwriting the results from the previous builds). And automatically create a chart showing the trend in code coverage and send via email to the project team.

**Answer:** A

#### NEW QUESTION 36

You have been asked to determine a TAS for a new release of a SUT, test should be automated wherever. The new release will consist of 5 new interfaces and an amendment to 3 existing interfaces. The new and amended interface will be deliver incrementally in 3 sprints, each lasting 2 weeks.

What would be the BEST Test Automation Solution (TAS) design in this scenario?

- A. Automate tests at both Component and System Leve
- B. Only do this automation once every interface has been fully developed or amended and manual testing has completed successfully.
- C. Automate tests at one level only, System leve
- D. Use only the newly developed interfaces and do not create any customized interfaces/test hooks.
- E. Automate the tests at two levels, Component and System leve
- F. Create customized hooks at Component level for interface not yet developed or amende
- G. Only use the newly developed or amended interfaces to test at System level.
- H. Automate a test at once level, component level, Create customized interface/test hooks for this level where the interface has not yet been developed or amended.

**Answer:** A

#### NEW QUESTION 39

You have been asked to implement test automation for a project that is not meeting its deadlines. After further analysis you discover that the manual testers are not able to keep up with the new feature testing because the regression testing is taking 75% of their time. As a result, the new features are being released with many defects and customers are complaining about the quality.

Given this information, what metric SHOULD you be tracking to show the value of test automation for this project?

- A. Percentage of code covered by the test automation.
- B. Equivalent Manual Test Effort for the automated tests.
- C. Number of defects found by test automation.
- D. Percentage of builds accepted/rejected by the automated tests.

**Answer:** B

#### Explanation:

Reference: <https://blog.testproject.io/2019/12/04/how-to-measure-the-value-of-your-test-automation/>

#### NEW QUESTION 44

Which of the following is an important success factor for any significant automation project?

- A. The TAA must be designed for testability.
- B. The TAA is self-documenting
- C. The SUT must be designed for testability
- D. The SUT is self-documenting

**Answer:** C

#### Explanation:

Reference: <https://www.infoq.com/articles/success-test-automation/>

#### NEW QUESTION 45

Which of the following describes how a test execution report is likely to be used?

- A. To understand which test step caused the failure in a test case
- B. To identify problematic areas of the SUT by keeping a history showing which test cases fail the most
- C. To measure coverage of the test basis by a test suite
- D. To record how a test case failure has been fixed

**Answer:** B

#### Explanation:

Reference: <https://www.guru99.com/how-test-reports-predict-the-success-of-your-testing-project.html>

#### NEW QUESTION 48

If you are tracking the frequency that a test automation code reports a defect that is not really a defect, what metric are you gathering?

- A. Tool scripting metrics
- B. Automation code defect density
- C. Trend metrics
- D. The number of false-fail results

**Answer:** D

#### Explanation:

Reference: <https://www.sealights.io/regression-testing/11-test-automation-metrics-and-their-pros-cons/>

#### NEW QUESTION 53

What represents good practice when automating a manual regression test suite?

- A. Test data shared between tests should, where feasible, be stored and accessed from a single source to avoid duplication or introduction of error.
- B. All existing manual tests should be decomposed into several smaller automated tests to reduce functional overlap.
- C. Remove inter-dependencies between tests to reduce automation failures and costly error analysis.
- D. Once a manual test has been automated, execute it immediately to identify whether it operates correctly.

**Answer:** D

#### Explanation:

Reference: <https://www.softwaretestinghelp.com/manual-to-automation-testing-process-challenges/>

#### NEW QUESTION 54

Consider a TAS that uses a keyword-driven framework. The SUT is a web application and there is a large set of keywords available for writing the automated tests that relate to highly specific user actions linked directly to the GUI of the SUT. The automated test written with the keywords are statically analyzed by a custom tool which highlights repeated instances of identical sequence of keywords. The waiting mechanism implemented by the TAS for a webpage load is based on a synchronous sampling within a given timeout. The TAS allows checking a webpage load every seconds until a timeout value

- A. Changing the scripting approach to data-driven scripting
- B. Implementing keywords with a higher level of granularity

- C. Changing the wait mechanism to explicit hard-coded waits
- D. Establishing an error recovery process for TAS and SUT

**Answer:** C

#### NEW QUESTION 59

What is the PRIMARY advantage of using abstraction in the TAA?

- A. It makes it more flexible for future reuse and improvements
- B. It requires a higher skill level to implement
- C. It ensures that any scripting method will be supported
- D. It improves the performance of the TAS

**Answer:** A

#### Explanation:

Reference: <https://www.techtarget.com/whatis/definition/abstraction>

#### NEW QUESTION 63

A TAS uses a commercial test automation tool and the default logs generated by the inconsistent formats such as different types of messages (pass/fail steps, screenshots, warnings, etc.) To solve this issue some custom logging functions have been created from the test scripts, making it possible to log the different types of messages with the same format. However, this may cause a problem due to excessive size of the logs which can make it difficult to find the required information. Assume that all the default logs will be disabled when running the automated tests and that some tests will not generate excessively sized logs.

Which of the following represents the BEST suggestion for implementing the custom logging functions?

- A. Implement the custom logging functions without saving timestamps
- B. Implement the custom logging functions to support different levels of tracing
- C. Implement the custom logging functions without saving stack traces
- D. Implement the custom logging functions to redirect the logs to multiple files

**Answer:** B

#### NEW QUESTION 65

The GUI of a Customer Relationship Management (CRM) application has been delivered through internet Explorer with proprietary Active X and Java controls. This implementation enables rich client capabilities, but specific commercial automation tools are necessary to automate test cases at GUI of functional test cases. This is to demonstrate whether a small set of the commercial are able to properly recognize actions taken by a tester when interacting with GUI of the CRM application.

Which of the following scripting techniques would be MOST suitable in this scenario?

- A. Data-driven scripting
- B. Keyword-driven scripting
- C. Linear scripting
- D. Structure scripting

**Answer:** D

#### NEW QUESTION 68

Which of the following statements BEST describe aspects of the SUT to consider when designing a TAA?

- A. All the interaction between SUT and TAS should be logged with the highest level of detail
- B. All the internal test interfaces of the SUT should be removed prior to the product release
- C. All the interface of the SUT affected by the tests should be controllable by the TAA
- D. All the external test interfaces of the SUT should be removed prior to the product release

**Answer:** A

#### NEW QUESTION 70

You are planning the pilot for an in-house developed Test Automation solution (TAS).

Which two of the following would be important steps to take as part of the planning process?

- a) Review your organisation's current projects and identify which one would be most suitable to pilot the TAS.
- b) Ensure that the developers will provide the necessary commitment for the TAS deployment activities.
- c) Run a series of training workshops for new users of the TAS before they are asked to use it.
- d) Develop a project plan for the pilot and reserve the necessary budget and resources for its implementation.
- e) Ask the developers to provide any missing functionality during the deployment activities.

- A. a and b
- B. b and d
- C. c and d
- D. c and e

**Answer:** B

#### NEW QUESTION 74

What are the four horizontal layers of the gTAA?

- A. Test adaptation, test execution, test design, test definition

- B. Test generation, test execution, test definition, test APIs
- C. Test generation, test definition, test execution, test adaptation
- D. Test definition, test execution, test reporting, test adaptation

**Answer:** C

**Explanation:**

Reference: <https://www.slideshare.net/jannatindia/chapter-3-the-generic-test-automation-architecture>

**NEW QUESTION 76**

A web application was released into production one year ago, it has regular release which follow a V-model lifecycle and testing is well-established and fully integration into the development lifecycle. You have been asked to implement a TAS for the regression test suite. The regression tests have been developed via the GUI and are expected to be run at least four times a month, for each planned release, for the whole operation solution life of the system (six years). Each screen of the GUI uses several third-party controls which are not compatible with the existing automation solutions. The environment for the automation will be stable, fully controllable and separated from other environments (development, staging, production). What could be the MOST problematic for this TAS?

- A. Maturity of the test process
- B. Complexity to automate
- C. Frequency of use
- D. Sustainability of the automated environment

**Answer:** D

**NEW QUESTION 79**

You have been asked to develop test automation for a legacy system that is going to go through a series of infrastructure migrations. The scripts will be used to verify basic functionality during these infrastructure changes. Your Test Analysts have some programming skills and need a solution that is simple and fast. Maintainability of the scripts is not a consideration because no changes to the software are anticipated. Which of the following is the BEST scripting approach in this situation?

- A. Structured scripting
- B. Capture-replay scripting
- C. Model-Based scripting
- D. Linear scripting

**Answer:** B

**NEW QUESTION 83**

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